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PTO/SB/05 (03/01)

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Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY **PATENT APPLICATION TRANSMITTAL**

62004-1970 Attomey Docket No. First Inventor Mule', et al. Optical waveguides with embedded air-gap cladding layer and

(Only for new nonprovisional	l applications under	37 CFR 1.53(b))
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methods f fabricati n there f EL 789316918 US Express Mail Label No.

			<u></u>				
		I ELEMENTS utility patent application conte		ADDRI	ESS TO:	Assistant Commissi Box Patent Applicat Washington, DC 20	ion
	APPLICANT REQUESTS EARLY PUBLICATION UNDER 37 CFR 1.219 (additional fee)						
1. A (Submit a	· ·	., PTO/SB/17) licate for fee processing) ity status. See CFR 1.27		7. [Progr Nucleotide a	OM or CD-R in duplicate, la am (Appendix) nd/or Amino Acid Sequence, all necessary)	α
3. X Specific (preferre	ation ed arrangement se	[Total Pages t forth below)	22]		a.	Computer Readable (Copy (CRF)
- C	Statement Regardi Reference to seque computer program Background of the Brief Summary of the	Related Applications ng Fed. Sponsored R&D ence listing, a table, or a listing appendix Invention ne Invention the Drawings (if filed)			c. COME	ii. Paper Statements verifying i	D-R (2 copies); or dentity of above copies
4. X Drawing	g(s) <i>(35 USC 113)</i>	[Total Sheets	6]	9. <u>[</u> 10. [37 C	nment Papers (cover sheet FR 3.73(b) Statement nthere is an assignee)	Power of Attorney
5. Qath or Declarat	tion	[Total Pages	3 /	11.	Engli	sh Translation Document (if	applicable)
T	Newly Executed (o		·	12.		mation Disclosure ment (IDS)/PTO-1449	Copies of IDS Citations
		application (37 CFR §1.63(d)) visional with Box 18 completed	d)	13.	Prelin	minary Amendment	
i.	Signed named	ON OF INVENTOR(S) statement attached deleting invented in the prior application, CFR 1.63(d)(2) and 1.33(b). See 37 CFR 1.76	ventor(s)	14. [15. [16. [17. [(Sho	m Receipt Postcard (MPEP uld be specifically itemized) fied Copy of Priority Documering priority is claimed) bublication Request under 35 (2)(8)(i). Applicant must a /SB/35 or its equivalent.	ent(s) 5 U.S.C.
(if applicable)	Assignee Name and Address (if applicable) Georgia Tech Research Corporation 505 Tenth Street Atlanta, Georgia 30332						
18. If a CONTINUI	NG APPLICATI	ON, check appropriate box der 37 CFR 1.76:	x, and suppl	ly the rec	quisite infon	nation below and in a pr	eliminary amendment,
or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No: / Prior application information: Examiner Group / Art Unit: Group / Art Unit: This incorporation is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
18. CORRESPONDENCE ADDRESS							
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Correspondence address below							
NAME	Christopher Th mas, Ka	B. Linder yden, Horstem yer &	Risl y, L.l	P.			
ADDRESS	100 Galleria Suit 1750						
CITY	Atlanta	STATE TELEPHONE	Georgia	0500		ZIP CODE FAX	30339-5948 770-951 <i>-</i> 0933
COUNTRY	U.S.A.	TELEPHONE	770-933-	9000			1
Name (Print/Type)		Christopher B. Linde	er		Registrati	ion No. (Attorney/Agent)	47,751

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

C mplete If Kn wn				
Application Number	To be assigned			
Filing Date	February 11, 2002			
First Named Inventor	Mule', et al.			
Examiner Name	To b assigned			
Group / Art Unit	T be assigned			
Attorney Docket No.	62004-1970			

TOTAL AMOUNT OF PAYMENT	(\$) 908.00 Attorney Docket No. 62004-1970						
METHOD OF PAYMENT FEE CALCULATION (continued)							
The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:		3.	ADDIT	IONAL	FEES		
Deposit Account Number	20-0778	Large Fee	Entity Fee	Small Fee	Entity Fee	Foo Description	For Bold
	20 0.10	Code	(\$)	Code	(\$)		Fee Pald
Deposit Account Name Thomas Ka	den Horstemeyer Risley LLP	105 127	130 50	205 227	65 25	Surcharge - late filing fee or oath Surcharge - late provisional filing fee or cover sheet	
Charge any Additional Fee requi	ed under 37 C.F.R. 1.16 and 1.17.	139	130	139	130	Non-English specification	
Applicant claims small entity stat	us. See 37 CFR 1.27.	147	2,520	147	2,520	For filing a request for ex-parte reexamination	
		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
1-2		113	1,840*	113	1,840*	Requesting publication of SIR after . Examiner action	
		115	110	215	55	Extension for reply within first month	
2. 🔯 Payment Enclose		116	400	216	200	Extension of time within second month	
l [™]	ney 🔲 Credit 🔲 Other der Card	117	920	217	460	Extension of time within third month	
		118	1,440	218	720	Extension of time within fourth month	
FEE CALC	ULATION	128	1,960 320	228 219	980 160	Extension of time within fifth month	
1. BASIC FILING FEE		119	320	219	160	Notice of Appeal	
Large Entity Small Entity	Fee Description Fee Paid	120	320	220	160	Filing a brief in support of an appeal	
	recoccipion recruid	121 138	280 1,510	221 138	140 1,510	Request for oral hearing Petition to institute a public use proceeding	
101 740 201 370	Utility filing fee \$740	140	110	240	55	Petition to revive - unavoidable	
106 330 206 165	Design filing fee \$	141	1,280	241	640	Petition to revive - unintentional	
<u>107</u> 510 207 255	Plant filing fee \$	142	1,280	242	640	Utility issue fee (or reissue)	
108 740 208 370	Reissue filing fee \$	143	460	243	230	Design issue fee	
114 160 214 80	Provisional filing fee \$	144	620	244	310	Plant issue fee	
	SUBTOTAL (1) (\$)740	122	130 50	122 123	130 50	Petitions to the Commissioner Processing fee under 37 CFR 1.17(q)	
		123					
2. EXTRA CLAIM FEES		126 581	180 40	126 581	180 40	Submission of Information Disclosure Stmt. Recording each patent assignment per property (time number of properties)	-
Extra (Fee from Claims below Fee Pald	146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	
Total Claims 13 -20**= 0	x 18.00 = 0	149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))	
Independent 5 -3** = 2	x 84.00 = 168	179	740	279	370	Request for Continued Examination (RCE)	
Multiple Dependent	140.00 = 0	169	900	169	900	Request for expedited examination of a design application	
Large Entity Small Entity	F. a December	ļ					
Fee Fee Fee Fee Code (\$)	Fee Description						
103 18 203 9	Claims in excess of 20		(if-ı			
102 84 202 42	Independent Claims in excess of 3	Our	er fee (s	pecity)			
104 280 204 140	Multiple dependent claims in excess of						
109 84 209 42	3 **Reissue independent claims over						
110 18 210 9	original patent **Reissue claims in excess of 20 and over original patent						
** or number previously paid, if greater; For Reissues, see above	SUBTOTAL (2) (\$)168.00	*Red	luced by Ba	isic Filin	g Fee Paid	SUBTOTAL (3)	(\$)0
	Complete (if applicable)						
SUBMITTED BY Typed or Printed Name	Christ ph r B. Linder		Registra (Attorney			47,751 Telephone Number 770-9	33-9500
Signature	Philada Bo	1.			ate 2	Deposit Account	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Mule', et al.

For: O

OPTICAL WAVEGUIDES WITH EMBEDDED AIR-GAP CLADDING LAYER AND METHODS OF FABRICATION THEREOF

CERTIFICATE OF EXPRESS MAIL

Assistant Commissioner for Patents BOX: Patent Application Washington, D.C. 20231

Sir:

Enclosed for filing in the above case are the following documents:

Return Postcard
Utility Patent Application Transmittal Page
Fee Transmittal Page
Utility Patent Application Consisting Of:

16 Pages of Specification

5 Pages of Claims (Claims 1-13)

1 Page of Abstract

6 Pages of Formal Drawings (Figs. 1A-6H)

Declaration (Unexecuted)

Credit Card Authorization in the amount of \$908.00

Information Disclosure Statement

IDS Form 1449 With 15 Cited References

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Respectfully submitted,

Christopher B. Linder, Reg. No. 47,751

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

100 Galleria Parkway, N.W.

Suite 1750

Atlanta, Georgia 30339-5948

Our Docket No: 62004-1970

I hereby certify that all correspondence listed above are being deposited for delivery to the above addressee, with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To

Addressee" Package # EL 789316918 US.

Date: 2/1/02

Jo Bryan